

CLAIMS

We claim:

- 1 1. A digital camera, comprising:
- 2 a photoelement array for acquiring image data;
- 3 a memory for saving said image data;
- 4 a processor in communication with said memory;
- 5 a display in communication with said processor for exhibiting said image data;
- 6 and
- 7 program code stored in said memory and executed by said processor for
- 8 manipulating said image data, said program code comprising an error
- 9 utility software module for providing a user with information on
- 10 incorrectly operating said digital camera.
- 1 2. The digital camera of claim 1, wherein said program code further
- 2 comprises:
- 3 an error utility software module for providing the user with information on
- 4 correctly operating said digital camera.
- 1 3. The digital camera of claim 1, wherein said program code further
- 2 comprises:
- 3 a first code segment for displaying text on said display.

1 4. The digital camera of claim 3, wherein said program code further
2 comprises:

3 a second code segment for displaying an animation on said display.

1 5. The digital camera of claim 1, further comprising:
2 means for communicating image data with a remote device.

1 6. A digital camera, comprising:
2 capturing means for acquiring image data;
3 storage means for saving said image data;
4 processing means in communication with said storage means;
5 display means in communication with said processing means for exhibiting
6 said image data; and
7 program means stored in said storage means and executed by said processing
8 means for manipulating said image data, said program means
9 comprising an error utility software module for providing a user with
10 information on incorrectly and correctly operating said digital camera.

1 7. The digital camera of claim 6, wherein said program means further
2 comprises:
3 a dialog module for displaying information on a plurality of operational errors
4 and correct method of operation on said display and processing any
5 user selection for more information.

1 8. The digital camera of claim 6, wherein said error utility module
2 comprises:

3 a first code segment for displaying text on said display.

1 9. The digital camera of claim 6, further comprising:
2 means for communicating image data with a remote device.

1 10. The digital camera of claim 6, wherein said error utility module
2 comprises:

3 a second code segment for displaying an animation on said display.

1 11. The digital camera of claim 6, wherein said program means further
2 comprises a dialog module for displaying information on a plurality of operational
3 errors and correct method of operation on said display and said error utility software
4 module comprises:
5 a first code segment for displaying text correlated with at least one of said
6 operational errors on said display;
7 a second code segment for displaying an animation correlated with at least one
8 of said operational errors on said display; and
9 a third code segment for scrolling said display to communicate a plurality of
10 screens of information to the user.

1 12. The digital camera of claim 11, further comprising:
2 a fourth code segment for providing an icon representative of a user interface
3 on said digital camera for scrolling between screens of information on
4 said display.

1 13. The digital camera of claim 11, wherein said icon comprises:
2 a pair of opposing arrows with each arrow uniquely representing a logical
3 scroll direction.

1 14. A method for providing error information to a user of a digital camera
2 having a built-in display, comprising the steps of:
3 processing a user execution of an erroneous operation performed by the user of
4 the digital camera; and
5 displaying a textual dialog containing operational error information and
6 method of correct operation information that is correlated with said
7 erroneous operation executed by the user of the digital camera.

1 15. The method of claim 14, further comprising the step of:
2 scrolling said display to communicate a plurality of screens of information in
3 response to a logical scroll direction entered by the user.

1 16. The method of claim 15, further comprising the step of:
2 providing an icon representative of a user interface on said digital camera for
3 scrolling between screens of information on said display.

1 17. The method of claim 16, wherein said icon comprises a pair of
2 opposing arrows with each arrow representing a unique said logical scroll direction
3 and further comprising the step of:
4 emphasizing one of said arrows representing a correct logical scroll direction
5 in response to an invalid scroll direction entered by the user.

1 18. The method of claim 17, wherein said arrow representing said correct
2 logical scroll direction is emphasized through blinking.

1 19. A method for providing error information to a user of a digital camera
2 having a built-in display, comprising the steps of:
3 processing a user execution of an erroneous operation performed by the user of
4 the digital camera; and
5 displaying an animated sequence conveying operational error information and
6 method of correct operation information that is correlated with said
7 erroneous operation executed by the user of the digital camera.

1 20. The method of claim 19, wherein said animation plays when scrolled
2 onto said display.

1 21. The method of claim 20, wherein said animation replays after
2 completion when scrolled off said display and onto said display again.

1 22. The method of claim 19, further comprising the step of:
2 communicating image data with a remote device.

1 23. A computer readable medium having a program for manipulating
2 image data acquired by a digital camera, said program code comprising:
3 logic configured to recognize erroneous operation of said digital camera; and
4 logic configured for displaying a textual dialog containing operational error
5 information and method of correct operation information that is
6 correlated with said erroneous operation executed by the user of the
7 digital camera.

1 24. The computer readable medium of claim 23, further comprising:
2 logic configured for scrolling said display to communicate a plurality of
3 screens of information in response to a logical scroll direction entered
4 by the user.

1 25. The computer readable medium of claim 23, further comprising:
2 logic configured for providing an icon representative of a user interface on said
3 digital camera for scrolling between screens of information on said
4 display.

1 26. The computer readable medium of claim 23, further comprising:
2 logic configured for communicating image data to a remote device.

1 27. A computer readable medium having a program for manipulating
2 image data acquired by a digital camera, said program code comprising:
3 logic configured to recognize erroneous operation of said digital camera; and
4 logic configured for displaying an animated sequence containing operational
5 error information and method of correct operation information that is
6 correlated with said erroneous operation executed by the user of the
7 digital camera.

1 28. A digital camera, comprising:
2 processing means for processing a user execution of an erroneous operation of
3 the digital camera; and
4 display means for displaying a textual dialog containing operational error
5 information and method of correct operation information that is
6 correlated with an erroneous operation executed by a user of the digital
7 camera.

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